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MISSION COVERAGE STATISTICS

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KH-4 MISSION III0-1

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 14 PAGES
 MCS-006/70

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Historical - Do not Destroy

FOR REFERENCE

Do Not Take From This Room

Declass Review by NGA / DoD

GROUP 1: EXCLUDED FROM
 AUTOMATIC DOWNGRADING
 AND DECLASSIFICATION

NRO review(s)
completed.

NPIC MCS00670

MISSION COVERAGE STATISTICS KH-4 MISSION...

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INTRODUCTION

This publication provides preliminary mission data, Greenwich Mean Time of passes, correlation of photographic coverage with WAC chart areas, coverage plots, and preliminary data for Mission 1110-1, dated 20-31 May 1970 (GMT).

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame numbers outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

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PRELIMINARY MISSION DATA

Mission Number: 1110-1

Launch Date/Time (GMT): 20 May 1970/2135

Photo Dates (GMT): 20,21,22,23,24,25,26,27,28,29,30,31 May 1970
Recovery Date/Time (GMT): 31 May 1970/2230

Operational Photo Passes: 48

Operational Altitude Limits: 87 - 105 Nautical Miles
Photo Scale Range: 1:268,456 - 1:318,328

Operational Ground Coverage (Fwd and Aft):

- a. Linear Nautical Miles: 43,224
- b. Square Nautical Miles: 5,619,120

Frames:

- a. Operational

Fwd-Looking 2,701
Aft-Looking 2,702

- b. Stellar 4,624
- c. Index 2,312

Operational Imagery Footage (Fwd and Aft): 13,383

Anomalies: Both the fwd and aft camera photography displays a focus problem and the index record is affected by a severe static fogging. These conditions are explained below.

Vehicle Attitude: Normal

Image Quality:

a. Main Camera - The image quality of both main camera records is less than that of an average KH-4B mission. The imagery appears sharp and objects are clearly defined at magnifications of 25X or less. When magnification is increased, however, the imagery exhibits an out of focus appearance and begins to breakup. The cause of this condition is being investigated.

b. Index Camera - The index camera was operational throughout the mission. The imagery, however, is degraded by intense static fogging associated with an 0.7 inch band of scratches located through the center of the film web throughout the mission. At times, the fogging affects up to one half of the format area. The major portion of the record is considered useable.

c. Stellar Camera - The stellar camera operated satisfactorily throughout the mission.

Cloud-Free Coverage: Approximately 80 per cent of the entire mission is cloud-free.

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GREENWICH MEAN TIME

These times are derived from preliminary data and cannot be verified at this time. They are carried to the nearest whole minute.

MISSION 1110-1

PASS	DATE (Z)	CAM ON		CAM OFF	
		HR (Z)	MIN (Z)	HR (Z)	MIN (Z)
04D	21 May 1970	03	25	03	26
06D	21 May 1970	06	30	06	32
07D	21 May 1970	08	00	08	02
10D (1)	21 May 1970	12	29	12	31
10D (2)	21 May 1970	12	40	12	41
19D	22 May 1970	01	35	01	37
20D	22 May 1970	03	04	03	05
21D (1)	22 May 1970	04	36	04	37
21D (2)	22 May 1970	04	38	04	40
22D (1)	22 May 1970	06	03	06	08
22D (2)	22 May 1970	06	09	06	11
23D	22 May 1970	07	36	07	37
24D	22 May 1970	09	04	09	05
25D (1)	22 May 1970	10	30	10	31
25D (2)	22 May 1970	10	36	10	36
37D	23 May 1970	04	14	04	17
39D	23 May 1970	07	12	04	14
40D	23 May 1970	08	42	08	43
42D	23 May 1970	11	41	11	43
53D	24 May 1970	03	53	03	55
54D	24 May 1970	05	21	05	22
55D	24 May 1970	06	54	06	54
56D	24 May 1970	08	21	08	22
57D (1)	24 May 1970	09	44	09	45
57D (2)	24 May 1970	09	48	09	50
58D	24 May 1970	11	21	11	21
59D (1)	24 May 1970	12	48	12	49
59D (2)	24 May 1970	12	50	12	51
70D	25 May 1970	05	03	05	04
72D	25 May 1970	07	55	07	58
73D (1)	25 May 1970	09	29	09	29
73D (2)	25 May 1970	09	30	09	31
74D (1)	25 May 1970	10	53	10	54
74D (2)	25 May 1970	11	00	11	01
74D (3)	25 May 1970	11	02	11	03
76D	25 May 1970	13	57	13	59
85D	26 May 1970	03	08	03	09
87D	26 May 1970	06	04	06	05
88D	26 May 1970	07	33	07	36
89D (1)	26 May 1970	09	04	09	05
89D (2)	26 May 1970	09	06	09	07
89D (3)	26 May 1970	09	08	09	09
90D	26 May 1970	10	32	10	33

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MISSION 1110-1 (Continued)

PASS	DATE (Z)	CAM ON		CAM OFF	
		HR (Z)	MIN (Z)	HR (Z)	MIN (Z)
102D (1)	27 May 1970	04	15	04	16
102D (2)	27 May 1970	04	17	04	18
103D	27 May 1970	05	42	05	43
106D	27 May 1970	10	14	10	15
118D	28 May 1970	03	53	03	54
121D	28 May 1970	08	20	08	22
122D (1)	28 May 1970	09	43	09	46
122D (2)	28 May 1970	09	53	09	54
123D	28 May 1970	11	20	11	21
134D	29 May 1970	03	30	03	31
137D	29 May 1970	07	57	07	59
138D	29 May 1970	09	20	09	21
152D	30 May 1970	06	02	06	05
153D (1)	30 May 1970	07	28	07	29
153D (2)	30 May 1970	07	34	07	37
154D (1)	30 May 1970	08	56	08	57
154D (2)	30 May 1970	09	02	09	02
154D (3)	30 May 1970	09	03	09	04
155D (1)	30 May 1970	10	28	10	32
155D (2)	30 May 1970	10	34	10	34
167D	31 May 1970	04	14	04	17

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WAC CORRELATION LIST
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WAC AREA	PASS	WAC AREA	PASS
0049	153D	0243	23D,39D,152D
0050	153D	0244	88D
0051	154D	0245	72D,88D,153D
0066	19D	0246	24D
0067	4D,20D	0247	89D
0068	4D,20D	0248	57D,154D
0072	4D,20D	0251	155D
0073	20D	0282	21D,37D,53D
0074	19D		134D
0091	122D,138D,154D	0283	21D,102D,118D
0092	57D,138D,154D		134D
0093	153D	0284	167D
0094	153D	0285	22D,167D
0097	22D,103D	0286	22D
0099	153D	0287	6D,22D
0100	153D	0288	22D
0101	57D	0289	167D
0102	57D,122D,138D	0290	21D,102D,118D
0103	122D		134D
0121	19D	0291	21D,37D,53D,134D
0126	22D	0322	155D
0127	22D,103D	0325	57D,154D
0153	74D,122D	0326	89D
0154	25D,57D,122D,138D	0327	24D,40D,121D
0155	57D		137D
0157	72D,88D	0328	40D,56D,137D
0158	152D		153D
0159	87D,103D,152D	0330	23D,39D
0160	87D	0331	39D
0161	152D	0333	39D,55D
0162	88D	0334	23D
0163	72D,88D	0336	40D,56D,137D
0166	25D,122D		153D
0167	25D,122D	0337	40D,121D,137D
0168	74D,90D,155D	0338	73D,89D
0196	85D	0339	57D,73D,154D
0197	21D,37D	0341	106D
0198	21D,102D	0345	59D
0199	54D	0346	59D
0200	22D,54D	0379	21D
0201	22D,54D,167D	0380	21D
0202	54D,167D	0381	70D,167D
0203	21D,37D,134D	0382	22D
0204	37D,53D,85D,134D	0383	6D,22D
0205	85D	0384	6D,22D
0232	155D	0385	22D
0233	74D,90D,155D	0386	70D
0235	57D,89D	0421	59D
0236	89D	0422	59D
0237	24D,72D	0424	42D,155D
0238	72D,88D	0425	58D,155D
0239	39D,152D	0426	106D
0240	39D,152D	0427	25D
0241	22D	0428	73D

WAC CORRELATION LIST (Continued)
MISSION 1110-1

<u>WAC AREA</u>	<u>PASS</u>	<u>WAC AREA</u>	<u>PASS</u>
0429	73D, 89D	0544	74D
0430	121D, 137D	0547	73D
0431	137D, 153D	0548	73D
0433	7D	0552	7D
0434	55D	0553	7D
0438	7D	0565	122D
0439	7D	0566	122D
0443	73D, 89D	0567	74D
0444	73D	0569	10D
0445	25D	0570	10D
0446	25D, 106D	0574	76D
0447	74D	0575	76D
0448	42D, 58D, 74D, 155D	0663	10D
0449	42D, 123D	0664	10D
0451	59D	0666	74D
0452	59D	0667	122D
0492	70D	0668	122D
0493	70D	0689	74D
0494	22D	0691	10D
0495	22D	0692	10D
0536	76D	1274	10D
0537	76D	1301	10D
0539	59D	1302	10D
0540	59D	1396	10D
0542	123D	1397	10D

EURASIA

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AFRICA

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